

9/16/04

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Welcome to STN International! Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated  
and searchable  
NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in  
CA/Caplus  
NEWS 5 FEB 05 German (DE) application and patent publication number format  
changes  
NEWS 6 MAR 03 MEDLINE and LMEDLINE reloaded  
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
NEWS 8 MAR 03 FRANCEPAT now available on STN  
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN  
NEWS 10 MAR 29 WPIFV now available on STN  
NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA  
NEWS 12 APR 26 PROMT: New display field available  
NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field  
available  
NEWS 14 APR 26 LITALERT now available on STN  
NEWS 15 APR 27 NLDB: New search and display fields available  
NEWS 16 May 10 PROUSDDR now available on STN  
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May  
and June 2004  
NEWS 18 May 12 EXTEND option available in structure searching  
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
NEWS 20 May 17 FRFULL now available on STN  
NEWS 21 May 27 STN User Update to be held June 7 and June 8 at the SLA 2004  
Conference  
NEWS 22 May 27 New UPM (Update Code Maximum) field for more efficient patent  
SDIs in Caplus  
NEWS 23 May 27 Caplus super roles and document types searchable in REGISTRY  
NEWS 24 May 27 Explore APOLLIT with free connect time in June 2004  
  
NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:15:37 ON 28 MAY 2004

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:15:58 ON 28 MAY 2004

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 MAY 2004 HIGHEST RN 686710-55-4

DICTIONARY FILE UPDATES: 27 MAY 2004 HIGHEST RN 686710-55-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

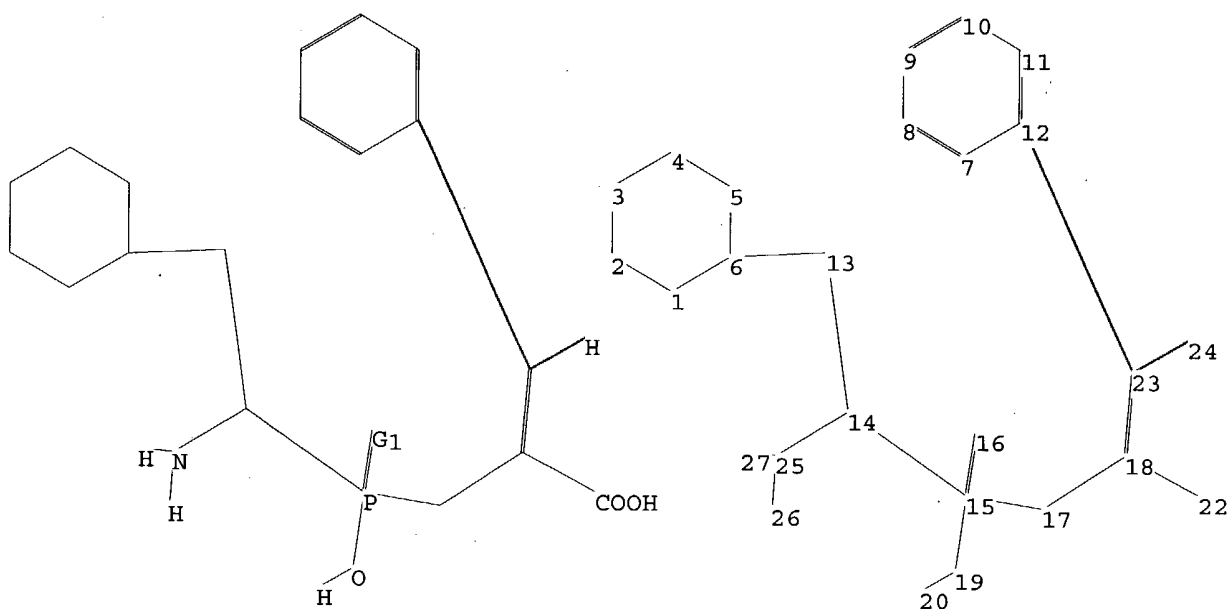
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Stnexp4 corrupted\QUERIES\10627991.str

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chain nodes :

13 14 15 16 17 18 19 20 22 23 24 25 26 27

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

6-13 12-23 13-14 14-15 14-25 15-16 15-17 15-19 17-18 18-22 18-23 19-20  
23-24 25-26 25-27

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 14-25 15-16 15-19

exact bonds :

6-13 12-23 13-14 14-15 15-17 17-18 18-22 18-23 19-20 23-24 25-26 25-27

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12

G1:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

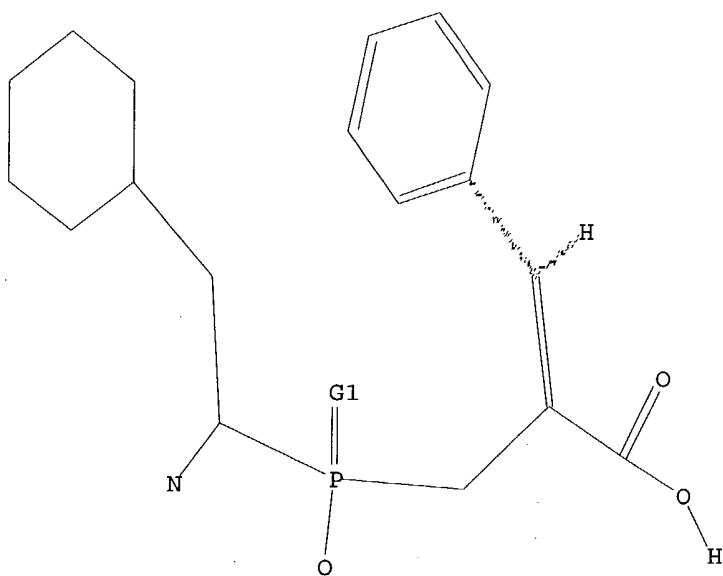
=> d l1

L1 HAS NO ANSWERS

L1 STR

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G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 16:16:22 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 3 TO 163  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1,ful

FULL SEARCH INITIATED 16:16:27 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 46 TO ITERATE

100.0% PROCESSED 46 ITERATIONS 21 ANSWERS  
SEARCH TIME: 00.00.01

L3 21 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
155.42	155.63

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:16:30 ON 28 MAY 2004  
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FILE COVERS 1907 - 28 May 2004 VOL 140 ISS 23

FILE LAST UPDATED: 27 May 2004 (20040527/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 2 L3

=> d abs bib hitstr 1-2

9/16/04

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
 AB Aminophosphinic acid deriva. were synthesized as potential inhibitors of renal dipeptidase, an enzyme overexpressed in benign and malignant colon tumors. Compsds. we synthesized using the Wittig-Horner reaction. Several compds. showed potent and reversible enzyme-inhibitory activity. These stable mols. with tetrahedral phosphorus species mimic the tetrahedral intermediate of the reaction catalyzed by renal dipeptidase. These compds. can be used therapeutically and diagnostically for

treatment

and detection of tumors.

AN 2004:100920 CAPLUS

DN 140:141702

TI Design and synthesis of aminophosphinic acid derivatives as renal dipeptidase inhibitors and antitumor agents

IN Khan, Saeed R.; Vogelstein, Bert; Kinzler, Kenneth W.; Gurulingappa, Hallur; Buckhaults, Phillip

PA The Johns Hopkins School of Medicine, USA

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

FAM. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004010846	A2	20040205	WO 2003-US23363	20030728
<p>M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
US 2004091422	A1	20040513	US 2003-627991	20030728
PRAI US 2002-39853P	P	20020727		
US 2002-427266P	P	20021118		
US 2002-437270P	P	20021230		

OS MARPAT 140:141702

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533935-41-8P 533935-42-9P 533935-43-10P

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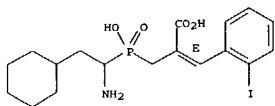
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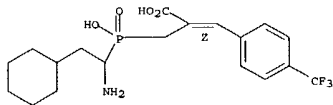
9/16/04

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



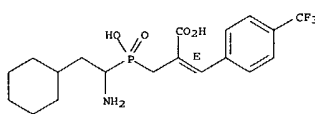
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CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[4-(trifluoromethyl)phenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-14-6 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[4-(trifluoromethyl)phenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



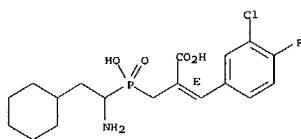
RN 653572-15-7 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[3,4-dichlorophenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



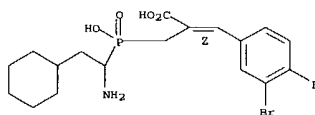
RN 653572-16-8 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[3-chloro-4-fluorophenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



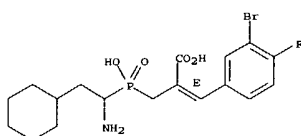
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2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[3-bromo-4-fluorophenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



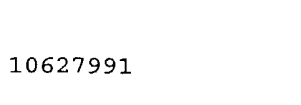
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2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[3-bromo-4-fluorophenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



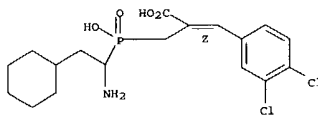
RN 653572-21-5 CAPLUS  
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3-[4-(diethylamino)phenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



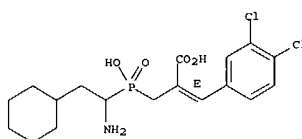
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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



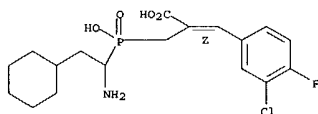
RN 653572-16-8 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[3,4-dichlorophenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-17-9 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[3-chloro-4-fluorophenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

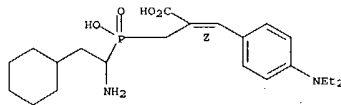


RN 653572-18-0 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[3-chloro-4-fluorophenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

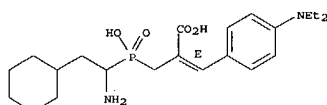


Double bond geometry as shown.



RN 653572-22-6 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[4-(diethylamino)phenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

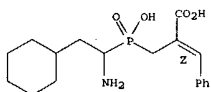


9/16/04

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
AB Aminophosphinic acid deriva. were synthesized as potential inhibitors of renal dipeptidase (RDP), an enzyme over-expressed in benign and malignant colon tumors, and several compds. showed potent enzyme-inhibitory activity. In an example reaction,  
(E)-[BocNH(C6H11CH2)CH]P(O)(OMe)[CH2C(CO2Me):CHPh] was prepared in two steps from [BocNH(C6H11CH2)CH]P(O)(OMe)H and  
hydrolyzed to (E)-[NH2(C6H11CH2)CH]P(O)(OH)[CH2C(CO2H):CHPh].  
AN 2003:114414 CAPLUS  
DN 139:6950  
TI Design, synthesis and evaluation of new RDP inhibitors  
AU Gurulingappa, Hallur; Buckhaults, Phillip; Kumar, Srinivas K.; Kinzler, Kenneth W.; Vogelstein, Bert; Khan, Saeed R.  
CS The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD, 21231, USA  
SO Tetrahedron Letters (2003), 44(9), 1871-1873  
CODEN: TETLEY; ISSN: 0040-4039  
PB Elsevier Science Ltd.  
DT Journal  
LA English  
OS CASREACT 139:6950  
IT 533935-35-2P 533935-36-3P 533935-37-4P  
533935-38-5P  
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(RDP inhibition activity; stereoselective preparation and RDP inhibition activity of aminophosphinic acid deriva.)

RN 533935-35-2 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-phenyl-, (2Z)- (9CI) (CA INDEX NAME)

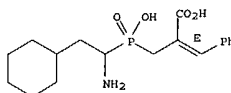
Double bond geometry as shown.



RN 533935-36-3 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

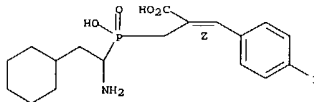
Double bond geometry as shown.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



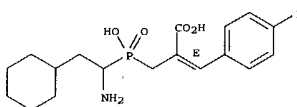
RN 533935-37-4 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 533935-38-5 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT



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=> file uspatall

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FILE 'REGISTRY' ENTERED AT 16:15:58 ON 28 MAY 2004

L1 STRUCTURE UPLOADED  
L2 0 S L1  
L3 21 S L1 FUL

FILE 'CAPLUS' ENTERED AT 16:16:30 ON 28 MAY 2004

L4 2 S L3

FILE 'USPATFULL, USPAT2' ENTERED AT 16:16:53 ON 28 MAY 2004

=> s l3

L5 0 L3

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.54	169.12

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=> s l3

L6 0 L3

=> logoff y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.24	175.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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NEWS 20 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 21 SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ  
  
NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
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=> file registry

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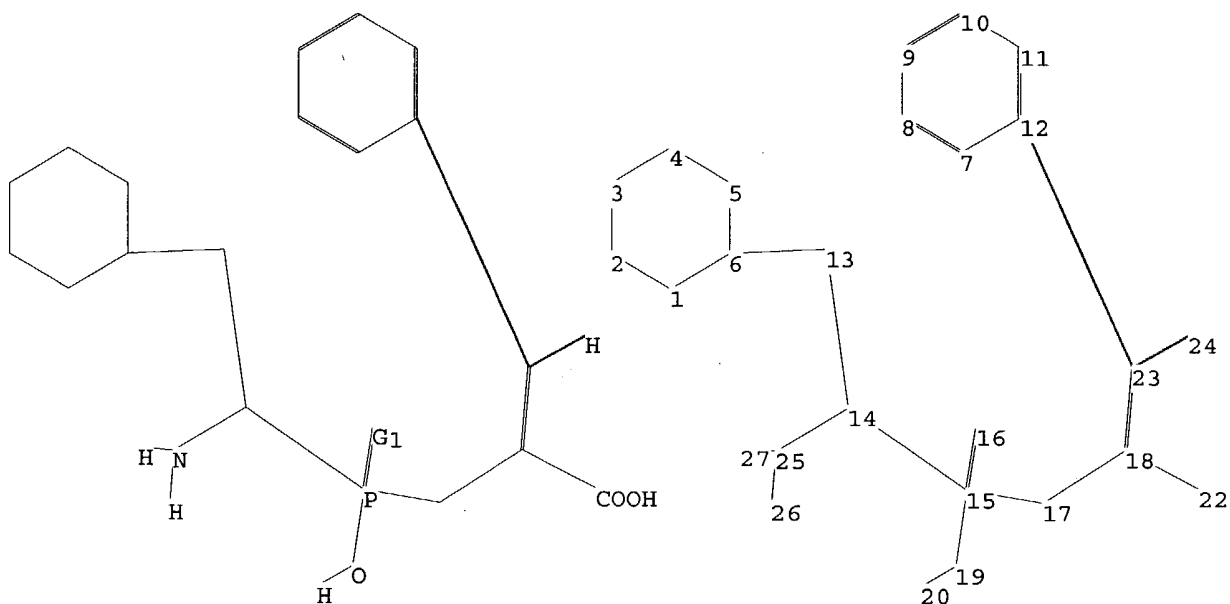
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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Uploading C:\Stnexp4 corrupted\QUERIES\10627991.str

10627991

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chain nodes :

13 14 15 16 17 18 19 20 22 23 24 25 26 27

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

6-13 12-23 13-14 14-15 14-25 15-16 15-17 15-19 17-18 18-22 18-23 19-20  
23-24 25-26 25-27

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 14-25 15-16 15-19

exact bonds :

6-13 12-23 13-14 14-15 15-17 17-18 18-22 18-23 19-20 23-24 25-26 25-27

normalized bonds :

7-8 7-12 8-9 9-10 10-11 11-12

G1:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

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\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 11:06:21 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 3 TO 163  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 11:06:25 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 47 TO ITERATE

100.0% PROCESSED 47 ITERATIONS 22 ANSWERS  
SEARCH TIME: 00.00.01

L3 22 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FILE LAST UPDATED: 15 Sep 2004 (20040915/ED)

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10627991

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L4                    3 L3

=> d abs bib hitstr 1-3

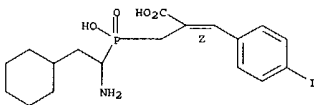
9/16/04

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN  
 AB Renal dipeptidase (RDP) is an enzyme overexpressed in benign and malignant colorectal tumors. In an effort to identify potent inhibitors of this enzyme, aminophosphinic acid derivs. were synthesized.  
 C6H11CH2CH(NH2)P(O)(OH)CH2C(CO2H).CHC6H2R1R2R3 (e.g., R1 = R2 = H, R3 = 4-F, 3a and 4-Br 3c) in which the Ph ring was para substituted with F and Br and olefin with Z geometry, showed better inhibitory activity against RDP enzyme (IC50 = 5-6 nM).  
 AN 2004:465506 CAPLUS  
 DN 141:157215  
 TI Synthesis and evaluation of aminophosphinic acid derivatives as inhibitors of renal dipeptidase  
 AU Gurulingappa, Hallur; Buckhalter, Phillip; Kinzler, Kenneth W.; Vogelstein, Bert; Khan, Saeed R.  
 CS The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD, 21231, USA  
 SO Bioorganic & Medicinal Chemistry Letters (2004), 14(13), 3531-3533  
 CODEN: BMCLB; ISSN: 0960-894X  
 PB Elsevier Science B.V.  
 DT Journal  
 LA English  
 IT 533935-37-4P 533935-38-5P 53572-06-6P  
 53572-07-7P 53572-08-8P 53572-09-9P  
 53572-10-2P 53572-11-3P 53572-12-4P  
 53572-13-5P 53572-14-6P 53572-15-7P  
 53572-16-8P 53572-17-9P 53572-18-0P  
 53572-19-1P 53572-20-4P 53572-21-5P  
 53572-22-6P 728032-33-5P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

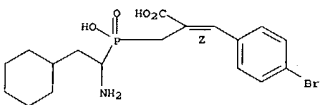
(preparation of aminophosphinic acid derivs. as renal dipeptidase inhibitors from Wittig-Horner olefination with aromatic aldehydes of intermediate made from protected amino(cyclohexylethyl)phosphinate and trimethylphosphonoacrylate)

RN 533935-37-4 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.

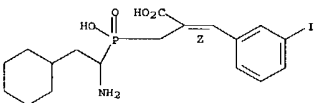


L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 Double bond geometry as shown.



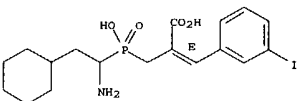
RN 653572-09-9 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(3-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



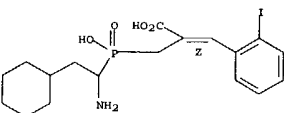
RN 653572-10-2 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(3-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



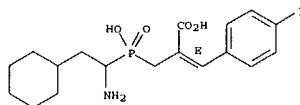
RN 653572-11-3 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(2-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



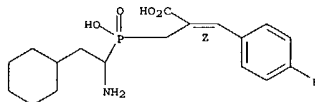
L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 533935-38-5 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



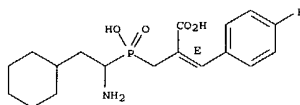
RN 653572-06-6 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-fluorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



RN 653572-07-7 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.

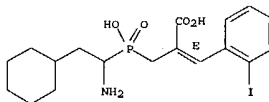


RN 653572-08-8 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-bromophenyl)-, (2Z)- (9CI) (CA INDEX NAME)]

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

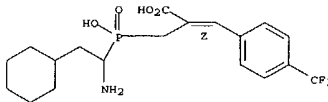
RN 653572-12-4 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(2-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



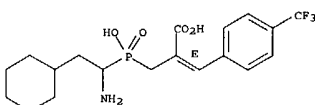
RN 653572-13-5 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-(trifluoromethyl)phenyl)-, (2Z)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



RN 653572-14-6 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(4-(trifluoromethyl)phenyl)-, (2E)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.



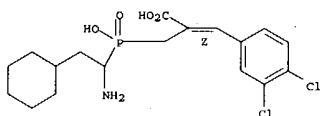
RN 653572-15-7 CAPLUS  
 CN 2-Propenoic acid,  
 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-(3,4-dichlorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)]

Double bond geometry as shown.

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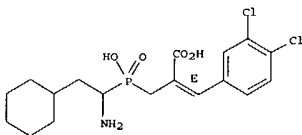
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L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



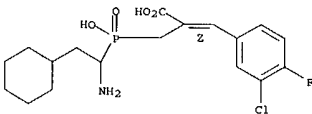
RN 653572-16-8 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3,4-dichlorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-17-9 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-chloro-4-fluorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

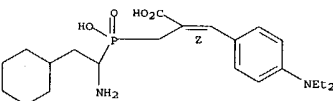
Double bond geometry as shown.



RN 653572-18-0 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-chloro-4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

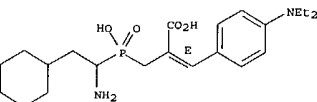
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L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



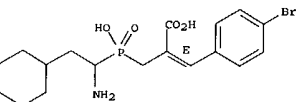
RN 653572-22-6 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[4-(diethylamino)phenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



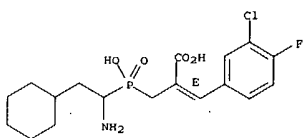
RN 728032-33-5 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-bromophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



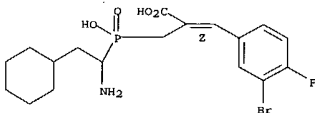
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



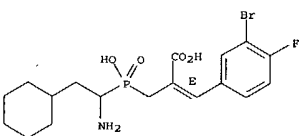
RN 653572-19-1 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-bromo-4-fluorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-20-4 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-bromo-4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-21-5 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-[4-(diethylamino)phenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AB Aminophosphinic acid deriva. were synthesized as potential inhibitors of renal dipeptidase, an enzyme overexpressed in benign and malignant colon tumors. Comps. were synthesized using the Wittig-Horner reaction. Several comds. showed potent and reversible enzyme-inhibitory activity. These stable mois. with tetrahedral phosphorus species mimic the tetrahedral intermediate of the reaction catalyzed by renal dipeptidase. These comds. can be used therapeutically and diagnostically for

treatment  
and detection of tumors.

AN 2004:100920 CAPLUS

DN 140:141702

TI Design and synthesis of aminophosphinic acid derivatives as renal dipeptidase inhibitors and antitumor agents

IN Khan, Saeed R.; Vogelstein, Bert; Kinzler, Kenneth W.; Gurulingappa, Hallur; Buckhaults, Phillip

PA The Johns Hopkins School of Medicine, USA

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004010846	A2	20040205	WO 2003-US23363	20030728
	WO 2004010846	A3	20040812		
W1	AE, AG, AL, AM, AT, AU, AZ, BA, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU				
	RW: CH, GM, KE, LE, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LJ, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2004091422	A1	20040513	US 2003-627991	20030728
	US 2002-398652P	P	20020727		
	US 2002-427266P	P	20021118		
	US 2002-432707P	P	20021230		
OS	MARPAT 140:141702				

IT 533935-35-2P 533935-36-3P 533935-37-4P

533935-38-5P 533572-06-6P 533572-07-7P

533572-08-8P 533572-09-9P 533572-10-2P

533572-11-3P 533572-12-4P 533572-13-5P

533572-14-6P 533572-15-7P 533572-16-8P

533572-17-9P 533572-18-0P 533572-19-1P

533572-20-4P 533572-21-5P 533572-22-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(design and synthesis of aminophosphinic acid deriva. as renal dipeptidase inhibitors and antitumor agents)

RN 533935-35-2 CAPLUS

CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-phenyl-, (2Z)- (9CI) (CA INDEX NAME)

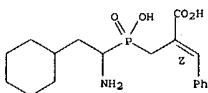
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10627991



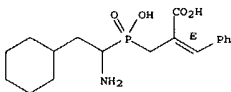
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L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



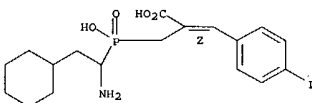
RN 533935-36-3 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 533935-37-4 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

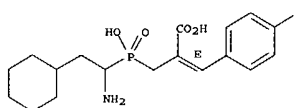
Double bond geometry as shown.



RN 533935-38-5 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

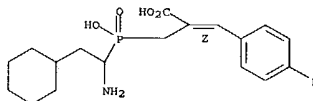
Double bond geometry as shown.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



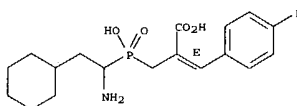
RN 653572-06-6 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-fluorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-07-7 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

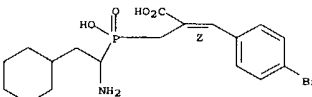
Double bond geometry as shown.



RN 653572-08-8 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-bromophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

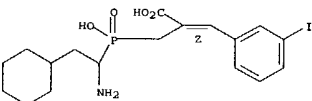
Double bond geometry as shown.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



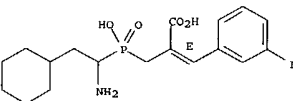
RN 653572-09-9 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



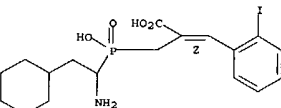
RN 653572-10-2 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-11-3 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(2-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

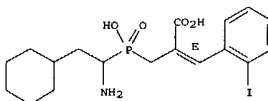
Double bond geometry as shown.



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

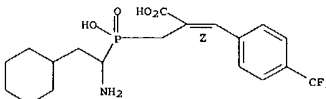
RN 653572-12-4 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(2-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



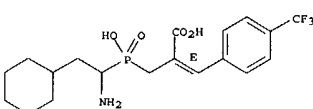
RN 653572-13-5 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-(trifluoromethyl)phenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-14-6 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-(trifluoromethyl)phenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



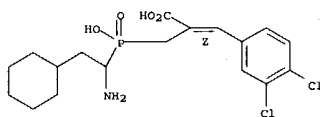
RN 653572-15-7 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3,4-dichlorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

10627991

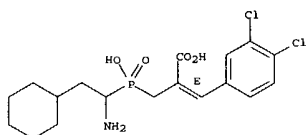
9/16/04

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



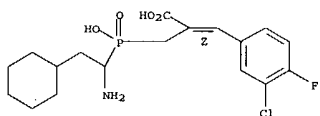
RN 653572-16-8 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3,4-dichlorophenyl)-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-17-9 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-chloro-4-fluorophenyl)-, (2Z)-(9CI) (CA INDEX NAME)

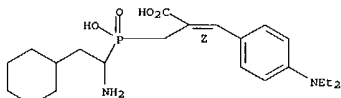
Double bond geometry as shown.



RN 653572-18-0 CAPLUS  
CN 2-Propenoic acid,  
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3-(3-chloro-4-fluorophenyl)-, (2E)-(9CI) (CA INDEX NAME)

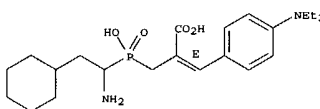
Double bond geometry as shown.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



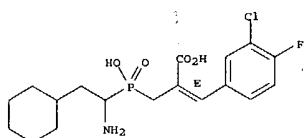
RN 653572-22-6 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-(diethylamino)phenyl)-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



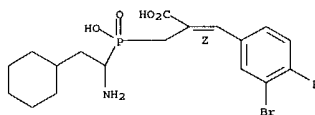
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L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



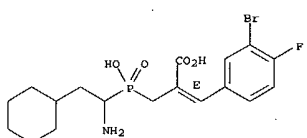
RN 653572-19-1 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-bromo-4-fluorophenyl)-, (2Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-20-4 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(3-bromo-4-fluorophenyl)-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 653572-21-5 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-(diethylamino)phenyl)-, (2Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AB Aminophosphinic acid deriva. were synthesized as potential inhibitors of renal dipeptidase (RDP), an enzyme over-expressed in benign and malignant colon tumors, and several compds. showed potent enzyme-inhibitory activity. In an example reaction, (E)-[BocNH(C6H11CH2)CH]P(O)(OMe)(CH2C(CO2Me):CHPh) was prepared in two steps from [BocNH(C6H11CH2)CH]P(O)(OMe)H and

hydrolyzed to (E)-[NH2(C6H11CH2)CH]P(O)(OH)(CH2C(CO2H):CHPh).

2003:114414 CAPLUS

DN 139:6950

TI Design, synthesis and evaluation of new RDP inhibitors

AU Gurulingappa, Hallur; Buckhaults, Phillip; Kumar, Srinivas K.; Kinzler, Kenneth W.; Vogelstein, Bert; Khan, Saeed R.

CS The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD, 21231, USA

SO Tetrahedron Letters (2003), 44(9), 1871-1873

CODEN: TETLEY, ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 139:6950

IT 533935-35-2P 533935-36-3P 533935-37-4P

533935-38-5P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation)

(RDP inhibition activity; stereoselective preparation and RDP

inhibition

activity of aminophosphinic acid deriva.)

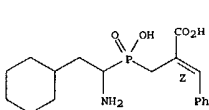
RN 533935-35-2 CAPLUS

CN 2-Propenoic acid,

2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-

3-phenyl-, (2Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

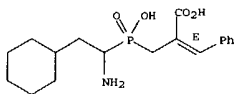


RN 533935-36-3 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-phenyl-, (2E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

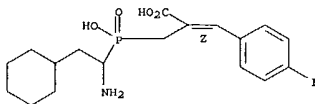
9/16/04

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



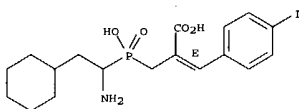
RN 533935-37-4 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 533935-38-5 CAPLUS  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-  
3-(4-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

9/16/04

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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170.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.10

-2.10

FILE 'USPATFULL' ENTERED AT 11:07:48 ON 16 SEP 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 11:07:48 ON 16 SEP 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l3

L5

1 L3

=> d abs bib fhitstr

9/16/04

L5 ANSWER 1 OF 1 USPATFULL on STN  
AB Aminophosphinic acid derivatives were synthesized as potential inhibitors of renal dipeptidase, an enzyme overexpressed in benign and malignant colon tumors. Several compounds showed potent enzyme-inhibitory activity. These compounds can be used therapeutically and diagnostically for treatment and detection of tumors.

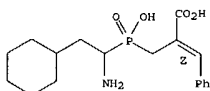
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 2004:120017 USPATFULL  
TI Design and synthesis of renal dipeptidase inhibitors  
IN Khan, Saeed R., Owings Mills, MD, UNITED STATES  
Vogelstein, Bert, Baltimore, MD, UNITED STATES  
Kinzler, Kenneth W., Bel Air, MD, UNITED STATES  
Gurulingappa, Hallur, Baltimore, MD, UNITED STATES  
Buckhaults, Phillip, Columbia, SC, UNITED STATES  
PA The Johns Hopkins University, Baltimore, MD, UNITED STATES (U.S. corporation)  
PI US 2004091422 A1 20040513  
A1 US 2003-627991 A1 20030728 (10)  
PRAI US 2002-437270P 20021230 (60)  
US 2002-427266P 20021118 (60)  
US 2002-398653P 20020727 (60)  
DT Utility  
FS APPLICATION  
LREP BANNER & WITCOFF, 1001 G STREET N W, SUITE 1100, WASHINGTON, DC, 20001  
CLMN Number of Claims: 21  
ECL Exemplary Claim: 1  
DRWN 5 Drawing Page(s)  
LN CNT 510

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 533935-35-2P  
(design and synthesis of aminophosphinic acid derivs. as renal dipeptidase inhibitors and antitumor agents)  
RN 533935-35-2 USPATFULL  
CN 2-Propenoic acid,  
2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-3-phenyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



9/16/04

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

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FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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CA SUBSCRIBER PRICE

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